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## IN THE CLAIMS:

Please rewrite claim 1 as follows and add new claims 37 to 40 as follows:

- 1. (currently amended) A plate for <u>combinatorial investigation of</u> the catalytic production of aromatic carbonates, comprising:
  - a substrate comprising an array of reaction cells; and
- a permeable polycarbonate film eovering sealed to cover at least one cell to selectively permit transport of a reactant gas comprising oxygen and carbon monoxide into the at least one cell while preventing transport of a diaryl carbonate reaction product out of the at least one cell;

wherein the permeable polycarbonate film selectively admits transport of oxygen and carbon monoxide and prohibits transport of a diaryl carbonate; and

wherein the at least one cell is formed from a polycarbonate substrate with two opposing walls comprising permeable polycarbonate film].

- 2. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 5 X 10<sup>-10</sup> to 5 X 10<sup>-7</sup> cc (STP)-mm/cm<sup>2</sup>-sec-cmHg.
- 3. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 1 X 10<sup>-9</sup> to 1 X 10<sup>-7</sup> cc (STP)-mm/cm<sup>2</sup>-sec-cmHg.
- 4. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 2 X 10<sup>-8</sup> to 2 X 10<sup>-6</sup> cc (STP)-nun/cm<sup>2</sup>-sec-cmHg.
- 5. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is .0002 to .05 mm thick.

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- 6. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is 005 to .04 mm thick.
- 7. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is 01 to .025 mm thick.
  - 8. (canceled)
  - 9. (canceled)
- 10. (previously presented) The plate of claim 1, wherein the permeable polycarbonate film is a monofilm, coextrusion, composite or laminate.
  - 11. (canceled)
  - 12. (canceled)
  - 13. (canceled)
  - 14. (canceled)
  - 15. (canceled)
- 16 (previously presented). The plate of claim 1, wherein the at least one cell is a concave bottomed cell with permeable film cover.
  - 17. (canceled)
  - 18. (canceled)
  - 19. (canceled)
  - 20. (canceled)
  - 21. (canceled)
  - 22. (canceled)
  - 23. (canceled)

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- 24. (canceled)
- 25. (canceled)
- 26. (canceled)
- 27. (canceled)
- 28. (canceled)
- 29. (canceled)
- 30. (canceled)
- 31. (canceled)
- 32. (canceled)
- 33. (canceled)
- 34. (canceled)
- 35. (canceled)
- 3б. (canceled)
- 37. (new) The plate of claim 1, wherein the at least one cell is formed from a polycarbonate substrate with two opposing walls comprising sealed permeable polycarbonate film.
- 38. (new) The plate of claim 1, wherein the permeable polycarbonate film is heat sealed to cover the at least one cell.
- 39 (new) The plate of claim 1, wherein the plate comprises a substrate comprising an array of reaction cells and a selected number of cells but not all are covered by the permeable polycarbonate film.

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40. (new) The plate of claim 1, wherein the plate comprises a substrate comprising an array of reaction cells and at least one cell is covered by the permeable polycarbonate film and at least one other cell is covered with a different film..